

Claim Status and Amendments

1. (currently amended) A clamping cartridge for releasably clamping a plurality of panel-type articles in generally parallel spaced-apart manner comprising:

a frame;

a plurality of clamping mechanisms spaced-apart along the frame, said clamping mechanisms being generally oriented perpendicular to their direction of spacing, each said clamping mechanism comprising a pair of relatively movable jaws, and being normally biased towards a closed position independently of other clamping mechanisms, said relatively movable jaws providing a clamping motion in generally the same direction as the direction of spacing of said clamping mechanisms;

actuation means operable on said jaws against the closing biases for opening and closing said clamping mechanisms in unison;

said clamping mechanisms being independently self-adjusting upon closing.

2. (cancelled)

3. (previously presented) The clamping cartridge as claimed in claim 1, wherein:

a pair of levers are connectable to or integral with each pair of jaws, said actuation means being operable on said levers to open and close said jaws.

4. (original) The clamping cartridge as claimed in claim 3, wherein:

said levers have a distal end and wherein when said ends of said pairs of levers are moved relatively toward one another by said actuation means, the jaws are caused to open.

5. (original) The clamping cartridge as claimed in claim 4, wherein:

said actuation means comprises camming means and control means for controlling the movement of said camming means; and

wherein said distal ends of said levers extend through said frame where they engage said camming means which is operable by said control means to urge together respective pairs of levers of each clamping mechanism so as to cause the plurality of clamping mechanisms to open

in unison and to permit the respective pairs of levers of each clamping mechanism to separate so as to cause the jaws of the plurality of clamping mechanisms to close or clamp.

6. (original) The clamping cartridge as claimed in claim 5, wherein:

 said control means comprises a rotatable shaft supported by the frame in said direction of spacing of said clamping mechanisms;

 wherein said camming means comprises a plurality of cam wheels which are disposed on said shaft and fixed to rotate with the shaft, said cam wheels having radial sides forming cam surfaces which vary in the axial direction with the revolution of the wheel;

 wherein said cam wheels are disposed adjacent the distal ends of said levers whereby a pair of oppositely oriented cam surfaces from adjacent cam wheels are provided for each pair of levers of each clamping mechanism and wherein said pair of cam surfaces are engageable with the distal ends of said pair of levers; and

 wherein when said shaft is rotated, said cam surfaces rotate causing the distance between respective pairs of cam surfaces at which said distal ends of said levers are engaged to decrease or increase, thereby actuating said ends of said pair of levers inwardly or outwardly to open or close respectively said jaws of each said clamping mechanism.

7. (original) The clamping cartridge as claimed in claim 6, wherein:

 said cam surfaces are generally planar.

8. (previously presented) The clamping cartridge as claimed in claim 1, wherein:

 said jaws are biased towards a closed position by a spring clip.

9-15. (cancelled)

16. (previously presented) A transportation or shipping package comprising one or more clamping cartridges as claimed in claim 1 used for at least one of clamping, spacing, separating and supporting one or more panels to be contained therein.

17. (previously presented) The transportation or shipping package as claimed in claim 16, further comprising seating means which cooperate with said one or more clamping cartridges for supporting said panels.

18. (previously presented) The transportation or shipping package as claimed in claim 16, wherein:

the clamping cartridges are provided in pairs, one clamping cartridge of each said pair being oriented generally perpendicularly to the other for clamping adjacent perpendicular edges of said panels.

19. (original) The transportation or shipping package as claimed in claim 18, wherein:

the clamping mechanisms of one of the clamping cartridges of each perpendicular pair align in the same plane with the corresponding clamping mechanisms of the other clamping cartridge of the pair.

20. (original) The transportation or shipping package as claimed in claim 18, wherein:

the perpendicular clamping cartridge pairs are disposed at an angle to the transportation or shipping package.